## METHOD AND APPARATUS FOR REDUCING THE THICKNESS OF A SENSOR STACK IN A CURRENT-PERPENDICULAR-TO-PLANE GMR/TUNNEL VALVE SENSOR

ABSTRACT

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A method and apparatus for reducing the thickness of a sensor stack in a current-perpendicular-to-plane (CPP) GMR/tunnel valve (TV) sensor is disclosed. A layer of alpha-Fe<sub>2</sub>O<sub>3</sub> having a high coercivity is formed adjacent the active areas for pinning the bias layer.